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# Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

*Prepared by the* COMMUNICABLE DISEASE CENTER 634-5131

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## PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED JUNE 27, 1964

*MALARIA SURVEILLANCE SUMMARY ISSUE*

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### MALARIA

One case of malaria was reported for the week ended June 27. This brings to 44 the cumulative total of cases of malaria reported thus far in 1964. For the comparable period of 1963, 47 cases were reported. A table of the cumulative cases of malaria reported through the 26th week for each of the past 10 years is presented (right).

As noted in the surveillance summary on pages 226 and 227 of this issue, cases of malaria reported in the United States occur in individuals who acquired the disease while residing in or traveling in malarious regions. Of the cases reported to date this year, none are known to have resulted from infection acquired within the United States.

MALARIA – U.S.A.
Cumulative Cases Through 26th Week for 10 Years

| 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 |
|---|---|---|---|---|---|---|---|---|---|
| 161 | 98 | 48 | 31 | 34 | 26 | 25 | 41 | 49 | 44 |
| Annual | | | | | | | | | |
| 522 | 234 | 132 | 85 | 71 | 72 | 73 | 118 | 107* | |

*Provisional total.

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

| Disease | 26th Week Ended | | | Cumulative, First 26 Weeks | | |
|---|---|---|---|---|---|---|
| | June 27, 1964 | June 29, 1963 | Median 1959 - 1963 | 1964 | 1963 | Median 1959 - 1963 |
| Aseptic meningitis | 37 | 35 | --- | 761 | 630 | --- |
| Brucellosis | 7 | 6 | 9 | 193 | 169 | 281 |
| Diphtheria | 1 | 3 | 5 | 137 | 136 | 309 |
| Encephalitis, primary infectious | 59 | 43 | --- | 940 | 782 | --- |
| Encephalitis, post-infectious | 39 | | --- | 520 | | --- |
| Hepatitis, infectious including serum hepatitis | 594 | 651 | 651 | 21,435 | 23,666 | 23,668 |
| Measles | 6,741 | 7,200 | 7,525 | 413,777 | 335,226 | 359,673 |
| Meningococcal infections | 43 | 36 | 35 | 1,498 | 1,448 | 1,337 |
| Poliomyelitis, Total | 4 | 5 | 22 | 42 | 82 | 239 |
| Paralytic | 1 | 2 | 17 | 30 | 70 | 162 |
| Nonparalytic | 1 | 2 | --- | 9 | 5 | --- |
| Unspecified | 2 | 1 | --- | 3 | 7 | --- |
| Streptococcal Sore Throat and Scarlet fever | 5,165 | 4,250 | --- | 251,385 | 214,892 | --- |
| Tetanus | 7 | 8 | --- | 123 | 115 | --- |
| Tularemia | 7 | 8 | --- | 143 | 122 | --- |
| Typhoid fever | 7 | 11 | 19 | 181 | 183 | 292 |
| Rabies in Animals | 78 | 73 | 73 | 2,386 | 2,044 | 2,036 |

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | | Cum. |
|---|---|---|---|
| Anthrax: | 2 | Psittacosis: Utah - 1, Pa - 2 | 17 |
| Botulism: | 10 | Rabies in Man: | - |
| Leptospirosis: Ark - 1, Hawaii - 2, Calif - 1 | 20 | Smallpox: | - |
| Malaria: Md - 1 | 44 | Typhus- | |
| Plague: | - | Murine: | 9 |
| | | Rky Mt. Spotted: Mass-1, NJ-1, Md-2, Pa-1, NC-3, Tenn-3 | 62 |

## MALARIA SURVEILLANCE SUMMARY – 1963

A total of 148 cases of malaria, with onsets of illness during 1963, was reported to the Malaria Surveillance Unit of the Communicable Disease Center; 4 were fatal. The total included 128 cases confirmed by species identification and 20 presumptive cases. The 1963 total represents a 67 percent increase over the average for the preceding 7 years, during which period active case investigation has occurred. Confirmed and presumptive cases for these years appear in the following table:

TABLE I

| | CASES | | |
|---|---|---|---|
| YEAR | CONFIRMED | PRESUMPTIVE | TOTAL |
| 1956 | 93 | 32 | 125 |
| 1957 | 97 | 6 | 103 |
| 1958 | 61 | 11 | 72 |
| 1959 | 33 | 21 | 54 |
| 1960 | 47 | 16 | 63 |
| 1961 | 72 | 13 | 85 |
| 1962 | 100 | 19 | 119 |
| 1963 | 128 | 20 | 148 |

Civilians accounted for 90 and military personnel for 58 of the 1963 cases. This represented a two-fold increase in the number of civilian cases (90 versus 44) as compared to 1962, and a reduction of the military cases from the 75 in 1962.

Table II
MILITARY AND CIVILIAN CASES OF MALARIA
UNITED STATES 1956 – 1963

| YEAR | MILITARY | CIVILIAN | TOTAL |
|---|---|---|---|
| 1956 | 46 | 79 | 125 |
| 1957 | 56 | 47 | 103 |
| 1958 | 33 | 39 | 72 |
| 1959 | 12 | 42 | 54 |
| 1960 | 21 | 42 | 63 |
| 1961 | 45 | 40 | 85 |
| 1962 | 75 | 44 | 119 |
| 1963 | 58 | 90 | 148 |

Thirty-five of the civilian cases occurred in merchant seamen (an epidemiological report on one outbreak involving a total of 12 cases was reported in the MMWR Vol. 12, page 365). Three of the 4 deaths occurred in merchant seamen.

The majority of cases occurred in males in the young adult and mid-adult age ranges, a distribution evident in the non-military as well as military cases. (See Table III).

*Plasmodium vivax* was the most common species diagnosis in the 128 confirmed cases. The frequency of species diagnosis is tabulated below:

| | |
|---|---|
| *P. vivax* | 78 |
| *P. falciparum* | 36 |
| *P. malariae* | 9 |
| *P. ovale* | 3 |
| Mixed infections | 2 |

TABLE III

MILITARY AND NON-MILITARY CASES OF MALARIA
BY AGE AND SEX
UNITED STATES 1963

| Age Group | Military Coses* | | Non-Military Coses | | | | Tatol Coses | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Male | Percent** | Male | Female | Total | Percent** | Male | Female | Total | Percent** |
| 0-9 | 0 | 0 | 1 | 1 | 2 | 2.4 | 1 | 1 | 2 | 1.5 |
| 10-19 | 8 | 16.3 | 9 | 2 | 11 | 13.2 | 17 | 2 | 19 | 14.4 |
| 20-29 | 25 | 51.0 | 19 | 7 | 26 | 31.3 | 44 | 7 | 51 | 38.6 |
| 30-39 | 13 | 26.5 | 12 | 4 | 16 | 19.3 | 25 | 4 | 29 | 22.0 |
| 40-49 | 3 | 6.1 | 9 | 3 | 12 | 14.5 | 12 | 3 | 15 | 11.4 |
| 50-59 | 0 | 0 | 12 | 2 | 14 | 16.9 | 12 | 2 | 14 | 10.6 |
| 60-69 | 0 | 0 | 1 | 0 | 1 | 1.2 | 1 | 0 | 1 | 0.8 |
| 70+ | 0 | 0 | 0 | 1 | 1 | 1.2 | 0 | 1 | 1 | 0.8 |
| Unknown | 9 | -- | 7 | 0 | 7 | -- | 16 | 0 | 16 | -- |
| TOTAL | 58 | 100 | 70 | 20 | 90 | 100.0 | 128 | 20 | 148 | 100.0 |

* No female Military Cases

** Percent Age Distributian Based an Cases with Knawn Age

All but 5 cases of malaria were acquired outside of the United States. Of the 5 cases originating in the United States, 2 were classified as induced and 3 unclassified. The unclassified cases, though unresolved, offered little evidence in support of autochthonous transmission as a source of the respective infections. (One of these cases reported in the MMWR Vol. 13, page 22). A large majority of cases reported involved patients acquiring their illnesses in the West African countries, Thailand, Vietnam, Korea, and Pakistan.

Thirty cases occurred in foreign visitors to the United States; the remaining 118 cases occurred in Americans either residing abroad or traveling through malarious areas.

In 71 percent of the cases, the reported attack of malaria represented the individual's first known clinical episode of the disease.

*(Reported by Malaria Surveillance Unit, CDC).*

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The accepted terminology of malaria cases is summarized in the following table, based on the recommendations of the World Health Organization.

1. **Autochthanous**
   a) **Indigenaus** – malaria acquired by mosquito transmission in an area where malaria is a regular occurrence.
   b) **Intraduced** – malaria acquired by mosquito transmission contracted from an imported case in an area where malaria is not a regular occurrence.
2. **Imparted** – malaria acquired outside of a specified area.
3. **Induced** – malaria acquired through artificial means, i.e., malario-therapy, blood transfusion, common syringes.
4. **Relapsing** – renewal of clinical activity occurring after an interval from the primary attack greater than that due merely to periodicity.
5. **Unclassified** – malaria in which the method of acquisition is unknown.

Table 3 CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 27, 1964 AND JUNE 29, 1963 (26TH WEEK)

| Area | Aseptic Meningitis | | Encephalitis Primary | Encephalitis Post-Inf. | Poliomyelitis, Total Cases | | | | Poliomyelitis, Paralytic | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Cumulative | | | | Cumulative | |
| | 1964 | 1963 | 1964 | 1964 | 1964 | 1963 | 1964 | 1963 | 1964 | 1963 | 1964 | 1963 |
| UNITED STATES... | 37 | 35 | 59 | 39 | 4 | 5 | 42 | 82 | 1 | 2 | 30 | 70 |
| NEW ENGLAND..... | 2 | - | 2 | 1 | - | - | - | 1 | - | - | - | 1 |
| Maine..... | 1 | - | - | - | - | - | - | 1 | - | - | - | 1 |
| New Hampshire..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Vermont..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Massachusetts..... | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| Rhode Island..... | - | - | 1 | 1 | - | - | - | - | - | - | - | - |
| Connecticut..... | - | - | - | - | - | - | - | - | - | - | - | - |
| MIDDLE ATLANTIC..... | 5 | 2 | 6 | 8 | - | 1 | 5 | 14 | - | - | 5 | 11 |
| New York City..... | 2 | - | 1 | - | - | - | 1 | - | - | - | 1 | - |
| New York, Up-State. | - | - | 1 | 4 | - | - | 2 | 5 | - | - | 2 | 5 |
| New Jersey..... | 1 | - | 3 | - | - | - | 2 | - | - | - | 2 | - |
| Pennsylvania..... | 2 | 2 | 1 | 4 | - | 1 | - | 9 | - | - | - | 6 |
| EAST NORTH CENTRAL... | 11 | 11 | 10 | 5 | 1 | 1 | 4 | 18 | - | - | 3 | 14 |
| Ohio..... | 1 | 2 | 3 | - | - | 1 | 2 | 5 | - | - | 2 | 3 |
| Indiana..... | - | 2 | 1 | - | - | - | - | 2 | - | - | - | 1 |
| Illinois..... | 5 | - | 3 | 5 | - | - | 1 | 7 | - | - | 1 | 6 |
| Michigan..... | 5 | 3 | 2 | - | 1 | - | 1 | 3 | - | - | - | 3 |
| Wisconsin..... | - | 4 | 1 | - | - | - | - | 1 | - | - | - | 1 |
| WEST NORTH CENTRAL... | 3 | 4 | 5 | - | - | - | 2 | 2 | - | - | 1 | 2 |
| Minnesota..... | 3 | 3 | 4 | - | - | - | - | 2 | - | - | - | 2 |
| Iowa..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Missouri..... | - | 1 | - | - | - | - | 2 | - | - | - | 1 | - |
| North Dakota..... | - | - | - | - | - | - | - | - | - | - | - | - |
| South Dakota..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Nebraska..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Kansas..... | - | - | 1 | - | - | - | - | - | - | - | - | - |
| SOUTH ATLANTIC..... | - | 3 | 16 | 3 | - | 3 | 18 | 12 | - | 2 | 13 | 9 |
| Delaware..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Maryland..... | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - |
| Dist. of Columbia.. | - | - | - | - | - | - | - | - | - | - | - | - |
| Virginia..... | - | 3 | - | 2 | - | - | - | 2 | - | - | - | 1 |
| West Virginia..... | - | - | - | - | - | - | 1 | 1 | - | - | 1 | 1 |
| North Carolina..... | - | - | 1 | - | - | 1 | 8 | 3 | - | 1 | 4 | 3 |
| South Carolina..... | - | - | - | 1 | - | 2 | 2 | 2 | - | 1 | 2 | 1 |
| Georgia..... | - | - | - | - | - | - | 1 | 1 | - | - | 1 | - |
| Florida..... | - | - | 14 | - | - | - | 5 | 3 | - | - | 4 | 3 |
| EAST SOUTH CENTRAL... | 2 | 1 | 2 | 1 | 1 | - | 4 | 6 | 1 | - | 2 | 5 |
| Kentucky..... | - | 1 | - | - | - | - | - | - | - | - | - | - |
| Tennessee..... | - | - | - | 1 | 1 | - | 2 | 2 | 1 | - | 1 | 2 |
| Alabama..... | 2 | - | - | - | - | - | 2 | 3 | - | - | 1 | 2 |
| Mississippi..... | - | - | 2 | - | - | - | - | 1 | - | - | - | 1 |
| WEST SOUTH CENTRAL... | 4 | 4 | 3 | - | - | - | 2 | 15 | - | - | 2 | 15 |
| Arkansas..... | - | - | - | - | - | - | - | 1 | - | - | - | 1 |
| Louisiana..... | 2 | - | - | - | - | - | - | 12 | - | - | - | 12 |
| Oklahoma..... | 1 | 1 | - | - | - | - | 1 | - | - | - | 1 | - |
| Texas..... | 1 | 3 | 3 | - | - | - | 1 | 2 | - | - | 1 | 2 |
| MOUNTAIN..... | - | 2 | 5 | - | 2 | - | 6 | 1 | - | - | 3 | 1 |
| Montana..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Idaho..... | - | - | - | - | - | - | - | 1 | - | - | - | 1 |
| Wyoming..... | - | - | - | - | - | - | 2 | - | - | - | 2 | - |
| Colorado..... | - | 1 | 4 | - | - | - | 1 | - | - | - | 1 | - |
| New Mexico..... | - | - | - | - | 2 | - | 3 | - | - | - | - | - |
| Arizona..... | - | 1 | - | - | - | - | - | - | - | - | - | - |
| Utah..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada..... | - | - | 1 | - | - | - | - | - | - | - | - | - |
| PACIFIC..... | 10 | 8 | 10 | 21 | - | - | 1 | 13 | - | - | 1 | 12 |
| Washington..... | - | 1 | 3 | 3 | - | - | - | 1 | - | - | - | 1 |
| Oregon..... | - | - | - | 1 | - | - | 1 | 1 | - | - | 1 | 1 |
| California..... | 9 | 7 | 7 | 17 | - | - | - | 11 | - | - | - | 10 |
| Alaska..... | 1 | - | - | - | - | - | - | - | - | - | - | - |
| Hawaii..... | - | - | - | - | - | - | - | - | - | - | - | - |
| Puerto Rico | - | - | - | - | - | - | - | 4 | - | - | - | 4 |

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 27, 1964 AND JUNE 29, 1963 (26TH WEEK) - CONTINUED

| Area | Brucellosis | | Diphtheria | | Infectious Hepatitis including Serum Hepatitis | | | | | | Typhoid Fever | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Cum. | | Cum. | Total | Under 20 years | 20 years and over | Age Unknown | Cumulative | | | Cum. |
| | 1964 | 1964 | 1964 | 1964 | 1964 | 1964 | 1964 | 1964 | 1964 | 1963 | 1964 | 1964 |
| UNITED STATES... | 7 | 193 | 1 | 137 | 594 | 281 | 282 | 31 | 21,435 | 23,666 | 7 | 181 |
| NEW ENGLAND..... | - | 2 | - | 42 | 26 | 5 | 17 | 4 | 2,170 | 2,589 | - | 10 |
| Maine..... | - | - | - | 39 | 4 | 2 | - | 2 | 723 | 1,205 | - | - |
| New Hampshire..... | - | - | - | - | 3 | - | 3 | - | 156 | 189 | - | - |
| Vermont..... | - | - | - | - | 4 | - | 2 | 2 | 269 | 32 | - | - |
| Massachusetts..... | - | 2 | - | 3 | 5 | - | 5 | - | 446 | 757 | - | 5 |
| Rhode Island..... | - | - | - | - | 3 | 1 | 2 | - | 116 | 59 | - | 5 |
| Connecticut..... | - | - | - | - | 7 | 2 | 5 | - | 460 | 347 | - | - |
| MIDDLE ATLANTIC..... | - | 3 | - | 5 | 160 | 100 | 60 | - | 4,876 | 4,505 | - | 30 |
| New York City..... | - | - | - | 1 | 26 | 9 | 17 | - | 712 | 623 | - | 12 |
| New York, Up-State. | - | 1 | - | - | 81 | 67 | 14 | - | 2,198 | 2,024 | - | 7 |
| New Jersey..... | - | - | - | 2 | 19 | 7 | 12 | - | 872 | 683 | - | 1 |
| Pennsylvania..... | - | 2 | - | 2 | 34 | 17 | 17 | - | 1,094 | 1,175 | - | 10 |
| EAST NORTH CENTRAL... | 1 | 24 | - | 6 | 95 | 39 | 50 | 6 | 3,246 | 3,851 | 2 | 43 |
| Ohio..... | - | 1 | - | - | 25 | 8 | 17 | - | 855 | 1,076 | - | 22 |
| Indiana..... | - | 1 | - | - | 8 | 4 | 4 | - | 289 | 364 | - | 8 |
| Illinois..... | 1 | 15 | - | 6 | 11 | 5 | 6 | - | 544 | 835 | - | 5 |
| Michigan..... | - | 3 | - | - | 44 | 21 | 23 | - | 1,322 | 1,400 | 1 | 6 |
| Wisconsin..... | - | 4 | - | - | 7 | 1 | - | 6 | 236 | 176 | 1 | 2 |
| WEST NORTH CENTRAL... | 3 | 89 | - | 21 | 20 | 9 | 10 | 1 | 1,193 | 1,096 | - | 16 |
| Minnesota..... | - | 3 | - | 11 | 2 | - | 2 | - | 109 | 179 | - | 1 |
| Iowa..... | 3 | 53 | - | - | 3 | - | 2 | 1 | 174 | 204 | - | 3 |
| Missouri..... | - | 6 | - | - | 8 | 5 | 3 | - | 304 | 420 | - | 6 |
| North Dakota..... | - | 2 | - | 2 | - | - | - | - | 45 | 29 | - | 2 |
| South Dakota..... | - | 12 | - | 1 | 1 | - | 1 | - | 105 | 53 | - | 1 |
| Nebraska..... | - | 11 | - | - | 1 | 1 | - | - | 28 | 80 | - | - |
| Kansas..... | - | 2 | - | 7 | 5 | 3 | 2 | - | 428 | 131 | - | 3 |
| SOUTH ATLANTIC..... | 1 | 18 | - | 28 | 63 | 33 | 28 | 2 | 2,035 | 2,470 | 2 | 37 |
| Delaware..... | - | - | - | - | - | - | - | - | 41 | 34 | - | - |
| Maryland..... | - | - | - | - | 14 | 6 | 8 | - | 395 | 290 | - | 1 |
| Dist. of Columbia.. | - | - | - | - | 1 | 1 | - | - | 32 | 68 | - | - |
| Virginia..... | - | 7 | - | - | 12 | 8 | 3 | 1 | 301 | 534 | 1 | 9 |
| West Virginia..... | - | - | - | - | 6 | 3 | 3 | - | 332 | 393 | - | - |
| North Carolina..... | 1 | 2 | - | - | 10 | 5 | 5 | - | 375 | 613 | 1 | 12 |
| South Carolina..... | - | - | - | 4 | 1 | - | - | 1 | 71 | 97 | - | 3 |
| Georgia..... | - | 6 | - | 20 | 5 | 1 | 4 | - | 47 | 106 | - | 1 |
| Florida..... | - | 3 | - | 4 | 14 | 9 | 5 | - | 441 | 335 | - | 11 |
| EAST SOUTH CENTRAL... | - | 10 | - | 5 | 34 | 21 | 11 | 2 | 1,454 | 2,398 | 2 | 20 |
| Kentucky..... | - | 3 | - | - | 10 | 6 | 2 | 2 | 606 | 701 | - | 6 |
| Tennessee..... | - | 3 | - | 1 | 18 | 13 | 5 | - | 513 | 955 | - | 8 |
| Alabama..... | - | 3 | - | 2 | 2 | 1 | 1 | - | 211 | 352 | 1 | 4 |
| Mississippi..... | - | 1 | - | 2 | 4 | 1 | 3 | - | 124 | 390 | 1 | 2 |
| WEST SOUTH CENTRAL... | - | 18 | 1 | 17 | 50 | 31 | 19 | - | 1,594 | 1,581 | - | 10 |
| Arkansas..... | - | 4 | - | - | 4 | 2 | 2 | - | 171 | 172 | - | 4 |
| Louisiana..... | - | 1 | - | 5 | 20 | 13 | 7 | - | 363 | 300 | - | 2 |
| Oklahoma..... | - | 2 | - | - | - | - | - | - | 84 | 81 | - | 3 |
| Texas..... | - | 11 | 1 | 12 | 26 | 16 | 10 | - | 976 | 1,028 | - | 1 |
| MOUNTAIN..... | 2 | 16 | - | 1 | 19 | 4 | - | 15 | 1,336 | 1,573 | - | 3 |
| Montana..... | - | - | - | - | 1 | - | - | 1 | 119 | 220 | - | - |
| Idaho..... | - | - | - | - | 5 | - | - | 5 | 144 | 247 | - | - |
| Wyoming..... | - | - | - | - | - | - | - | - | 45 | 21 | - | - |
| Colorado..... | - | - | - | - | 7 | - | - | 7 | 377 | 333 | - | - |
| New Mexico..... | - | 1 | - | 1 | 4 | 4 | - | - | 191 | 187 | - | - |
| Arizona..... | - | 1 | - | - | 2 | - | - | 2 | 301 | 373 | - | 3 |
| Utah..... | 2 | 13 | - | - | - | - | - | - | 118 | 182 | - | - |
| Nevada..... | - | 1 | - | - | - | - | - | - | 41 | 10 | - | - |
| PACIFIC..... | - | 13 | - | 12 | 127 | 39 | 87 | 1 | 3,531 | 3,603 | 1 | 12 |
| Washington..... | - | - | - | 11 | 21 | 6 | 14 | 1 | 399 | 622 | - | 1 |
| Oregon..... | - | 1 | - | - | 13 | 4 | 9 | - | 391 | 476 | - | - |
| California..... | - | 12 | - | 1 | 87 | 26 | 61 | - | 2,558 | 2,415 | 1 | 11 |
| Alaska..... | - | - | - | - | 1 | 1 | - | - | 113 | 65 | - | - |
| Hawaii..... | - | - | - | - | 5 | 2 | 3 | - | 70 | 25 | - | - |
| Puerto Rico | - | - | 1 | 5 | 17 | 13 | 4 | - | 339 | 384 | - | 9 |

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 27, 1964 AND JUNE 29, 1963 (26TH WEEK) - CONTINUED

| Area | Measles | Meningococcal Meningitis | | | Streptococcal Sore Throat and Scarlet Fever | | Tetanus | | Tularemia | | Rabies in Animals | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cumulative | | | | | Cum. | | Cum. | | Cum. |
| | 1964 | 1964 | 1964 | 1963 | 1964 | 1963 | 1964 | 1964 | 1964 | 1964 | 1964 | 1964 |
| UNITED STATES... | 6,741 | 43 | 1,498 | 1,448 | 5,165 | 4,250 | 7 | 123 | 7 | 143 | 78 | 2,386 |
| NEW ENGLAND..... | 380 | 1 | 43 | 91 | 630 | 541 | 1 | 4 | - | - | - | 13 |
| Maine..... | - | - | 5 | 15 | - | 89 | - | - | - | - | - | 11 |
| New Hampshire..... | 8 | - | - | 4 | 9 | 2 | - | - | - | - | - | 1 |
| Vermont..... | 51 | - | 1 | 3 | - | - | - | - | - | - | - | 1 |
| Massachusetts..... | 187 | - | 19 | 42 | 55 | 74 | 1 | 4 | - | - | - | - |
| Rhode Island..... | 55 | 1 | 5 | 0 | 58 | 29 | - | - | - | - | - | - |
| Connecticut..... | 79 | - | 13 | 13 | 508 | 347 | - | - | - | - | - | - |
| MIDDLE ATLANTIC..... | 1,000 | 5 | 156 | 197 | 278 | 204 | - | 8 | - | - | 6 | 65 |
| New York City..... | 294 | - | 26 | 28 | 9 | 24 | - | - | - | - | - | - |
| New York, Up-State. | 419 | 1 | 54 | 62 | 188 | 142 | - | 2 | - | - | 6 | 62 |
| New Jersey..... | 205 | 4 | 30 | 27 | 43 | 21 | - | 4 | - | - | - | - |
| Pennsylvania..... | 82 | - | 46 | 80 | 38 | 17 | - | 2 | - | - | - | 3 |
| EAST NORTH CENTRAL... | 1,511 | 7 | 220 | 237 | 580 | 294 | 2 | 19 | - | 12 | 15 | 327 |
| Ohio..... | 214 | 1 | 60 | 67 | 45 | 49 | - | 3 | - | 1 | 9 | 168 |
| Indiana..... | 231 | 1 | 34 | 29 | 102 | 65 | 1 | 2 | - | 1 | - | 17 |
| Illinois..... | 89 | 2 | 54 | 43 | 94 | 42 | 1 | 7 | - | 8 | 3 | 75 |
| Michigan..... | 602 | 1 | 47 | 71 | 241 | 102 | - | 6 | - | 1 | 1 | 29 |
| Wisconsin..... | 375 | 2 | 25 | 27 | 98 | 36 | - | 1 | - | 1 | 2 | 38 |
| WEST NORTH CENTRAL... | 292 | 6 | 96 | 87 | 74 | 97 | - | 7 | 2 | 29 | 27 | 769 |
| Minnesota..... | 2 | 3 | 22 | 17 | 3 | 4 | - | 1 | - | 1 | 6 | 232 |
| Iowa..... | 229 | 1 | 6 | 4 | 39 | 22 | - | 2 | - | 1 | 6 | 273 |
| Missouri..... | 9 | 2 | 48 | 30 | 6 | 2 | - | 2 | 1 | 18 | 7 | 123 |
| North Dakota..... | 48 | - | 9 | 4 | 26 | 36 | - | - | - | - | 1 | 42 |
| South Dakota..... | - | - | - | 5 | - | 9 | - | 1 | 1 | 1 | 5 | 64 |
| Nebraska..... | 4 | - | 5 | 19 | - | - | - | - | - | - | 1 | 21 |
| Kansas..... | NN | - | 6 | 8 | - | 24 | - | 1 | - | 8 | 1 | 14 |
| SOUTH ATLANTIC..... | 414 | 5 | 338 | 273 | 387 | 317 | 2 | 42 | - | 18 | 3 | 319 |
| Delaware..... | 7 | - | 4 | 2 | 1 | - | - | - | - | - | - | - |
| Maryland..... | 19 | - | 23 | 41 | 53 | 10 | - | 3 | - | - | - | - |
| Dist. of Columbia.. | 2 | - | 9 | 4 | 2 | - | - | - | - | - | - | - |
| Virginia..... | 102 | 2 | 38 | 66 | 110 | 133 | - | 5 | - | 4 | 1 | 191 |
| West Virginia..... | 114 | - | 24 | 13 | 157 | 60 | - | 1 | - | - | - | 22 |
| North Carolina..... | 13 | 1 | 57 | 47 | 8 | 6 | - | 12 | - | 4 | - | 3 |
| South Carolina..... | 43 | - | 48 | 13 | 2 | 15 | - | 3 | - | - | - | 1 |
| Georgia..... | - | - | 44 | 22 | 1 | - | - | 1 | - | 10 | 1 | 58 |
| Florida..... | 114 | 2 | 91 | 65 | 53 | 93 | 2 | 17 | - | - | 1 | 44 |
| EAST SOUTH CENTRAL... | 631 | 4 | 138 | 111 | 897 | 861 | - | 15 | - | 19 | 4 | 308 |
| Kentucky..... | 185 | - | 46 | 25 | 73 | 71 | - | 2 | - | 1 | - | 43 |
| Tennessee..... | 403 | 1 | 46 | 48 | 748 | 715 | - | 8 | - | 12 | 4 | 251 |
| Alabama..... | 15 | 3 | 29 | 21 | 36 | 10 | - | 4 | - | 3 | - | 14 |
| Mississippi..... | 28 | - | 17 | 17 | 40 | 65 | - | 1 | - | 3 | - | - |
| WEST SOUTH CENTRAL... | 863 | 2 | 139 | 143 | 491 | 450 | 1 | 11 | 3 | 44 | 14 | 349 |
| Arkansas..... | 7 | 1 | 16 | 9 | 4 | - | 1 | 3 | 2 | 24 | 6 | 88 |
| Louisiana..... | 4 | - | 99 | 58 | 1 | 2 | - | 3 | - | 1 | 1 | 31 |
| Oklahoma..... | 2 | - | 5 | 29 | 1 | 10 | - | - | 1 | 16 | 2 | 57 |
| Texas..... | 850 | 1 | 19 | 47 | 485 | 438 | - | 5 | - | 3 | 5 | 173 |
| MOUNTAIN..... | 354 | 2 | 55 | 51 | 997 | 921 | 1 | 4 | 2 | 21 | - | 83 |
| Montana..... | 66 | - | - | 3 | 29 | 29 | - | - | 1 | 11 | - | - |
| Idaho..... | 40 | 1 | 3 | 4 | 61 | 114 | - | - | - | - | - | - |
| Wyoming..... | 2 | - | 3 | 4 | 3 | 4 | - | 1 | - | 4 | - | - |
| Colorado..... | 66 | - | 11 | 12 | 493 | 392 | - | - | - | - | - | 4 |
| New Mexico..... | 15 | 1 | 22 | 3 | 194 | 219 | - | 1 | - | - | - | 39 |
| Arizona..... | 103 | - | 3 | 8 | 114 | 94 | 1 | 1 | - | - | - | 39 |
| Utah..... | 62 | - | 5 | 14 | 103 | 69 | - | 1 | 1 | 6 | - | - |
| Nevada..... | - | - | 8 | 3 | - | - | - | - | - | - | - | 1 |
| PACIFIC..... | 1,296 | 11 | 313 | 258 | 831 | 565 | - | 13 | - | - | 9 | 153 |
| Washington..... | 85 | 1 | 25 | 19 | 72 | 119 | - | 1 | - | - | - | - |
| Oregon..... | 328 | - | 18 | 17 | 15 | 9 | - | - | - | - | - | 2 |
| California..... | 852 | 9 | 255 | 208 | 667 | 390 | - | 11 | - | - | 9 | 151 |
| Alaska..... | 4 | - | 6 | 7 | 21 | 21 | - | - | - | - | - | - |
| Hawaii..... | 27 | 1 | 9 | 7 | 56 | 26 | - | 1 | - | - | - | - |
| Puerto Rico | 105 | 3 | 23 | 4 | 29 | 11 | 2 | 39 | - | - | - | 13 |

## Table 4 (B). REPORTED PNEUMONIA-INFLUENZA DEATHS IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

| Area | For weeks ending | | | |
|---|---|---|---|---|
| | 6/6 | 6/13 | 6/20 | 6/27 |
| NEW ENGLAND: | | | | |
| Boston, Mass. | 31 | 10 | 7 | 8 |
| Bridgeport, Conn. | 3 | 3 | 4 | 3 |
| Cambridge, Mass. | - | - | - | - |
| Fall River, Mass. | 1 | - | 1 | 1 |
| Hartford, Conn. | 1 | - | - | 1 |
| Lowell, Mass. | 3 | 3 | 2 | - |
| Lynn, Mass. | 2 | 2 | 1 | 2 |
| New Bedford, Mass. | 2 | - | 2 | 2 |
| New Haven, Conn. | - | 2 | - | - |
| Providence, R.I. | - | - | 1 | 2 |
| Somerville, Mass. | 1 | - | 1 | 1 |
| Springfield, Mass. | 3 | 2 | 3 | 4 |
| Waterbury, Conn. | - | - | - | 1 |
| Worcester, Mass. | 6 | 1 | 3 | 1 |
| MIDDLE ATLANTIC: | | | | |
| Albany, N.Y. | - | - | - | 4 |
| Allentown, Pa. | 3 | 1 | - | - |
| Buffalo, N.Y. | 11 | 6 | 4 | 2 |
| Camden, N.J. | 5 | 2 | 2 | 2 |
| Elizabeth, N.J. | - | - | 1 | - |
| Erie, Pa. | 4 | 3 | - | - |
| Jersey City, N.J. | 4 | 6 | 4 | 3 |
| Newark, N.J. | 1 | 1 | 3 | 3 |
| New York City, N.Y. | 43 | 42 | 53 | 49 |
| Paterson, N.J. | 6 | 4 | 4 | 3 |
| Philadelphia, Pa. | 23 | 7 | 5 | 11 |
| Pittsburgh, Pa. | 3 | 4 | 4 | 3 |
| Reading, Pa. | 2 | 8 | 8 | 1 |
| Rochester, N.Y. | 6 | 5 | 6 | 10 |
| Schenectady, N.Y. | 3 | - | - | 1 |
| Scranton, Pa. | - | 3 | 1 | - |
| Syracuse, N.Y. | 1 | 2 | 3 | - |
| Trenton, N.J. | 1 | 1 | 8 | 3 |
| Utica, N.Y. | 1 | - | 2 | - |
| Yonkers, N.Y. | 1 | 2 | - | 1 |
| EAST NORTH CENTRAL: | | | | |
| Akron, Ohio | - | 1 | - | - |
| Canton, Ohio | 3 | 2 | 5 | 5 |
| Chicago, Ill. | 23 | 35 | 25 | 29 |
| Cincinnati, Ohio | 8 | 3 | 5 | 6 |
| Cleveland, Ohio | 5 | 1 | 2 | 3 |
| Columbus, Ohio | - | 1 | 3 | - |
| Dayton, Ohio | - | 1 | 1 | 3 |
| Detroit, Mich. | 15 | 13 | 7 | 10 |
| Evansville, Ind. | 1 | 1 | 1 | 1 |
| Flint, Mich. | 3 | 2 | - | 4 |
| Fort Wayne, Ind. | 2 | - | 4 | - |
| Gary, Ind. | 2 | 4 | 7 | 3 |
| Grand Rapids, Mich. | 6 | 5 | 4 | - |
| Indianapolis, Ind. | 4 | 4 | 3 | 5 |
| Madison, Wis. | - | 2 | - | - |
| Milwaukee, Wis. | 3 | 2 | 1 | 5 |
| Peoria, Ill. | 1 | - | - | - |
| Rockford, Ill. | 3 | 3 | 3 | 1 |
| South Bend, Ind. | 2 | - | 2 | 2 |
| Toledo, Ohio | 1 | 4 | 3 | 4 |
| Youngstown, Ohio | - | 1 | 1 | 1 |
| WEST NORTH CENTRAL: | | | | |
| Des Moines, Iowa | 3 | 1 | 1 | 1 |
| Duluth, Minn. | - | - | - | - |
| Kansas City, Kans. | 2 | 1 | - | 3 |
| Kansas City, Mo. | 4 | 1 | 7 | 2 |
| Lincoln, Nebr. | 2 | 1 | - | 1 |
| Minneapolis, Minn. | 3 | 1 | 3 | 1 |
| Omaha, Nebr. | - | 3 | 3 | 5 |
| St. Louis, Mo. | 8 | 6 | 8 | 8 |
| St. Paul, Minn. | 2 | 1 | 1 | 1 |
| Wichita, Kans. | 6 | 9 | 5 | 4 |
| SOUTH ATLANTIC: | | | | |
| Atlanta, Ga. | 1 | 4 | 3 | 6 |
| Baltimore, Md. | 6 | 6 | 3 | 3 |
| Charlotte, N.C. | 1 | - | - | - |
| Jacksonville, Fla. | - | - | 1 | 1 |
| Miami, Fla. | 1 | 1 | - | 1 |
| Norfolk, Va. | 2 | 2 | 3 | 5 |
| Richmond, Va. | 1 | 1 | 2 | 1 |
| Savannah, Ga. | 5 | 5 | 2 | 3 |
| St. Petersburg, Fla. | 6 | 2 | 3 | 10 |
| Tampa, Fla. | 6 | 8 | 10 | 8 |
| Washington, D.C. | 11 | 8 | 10 | 7 |
| Wilmington, Del. | 2 | 1 | 4 | 2 |
| EAST SOUTH CENTRAL: | | | | |
| Birmingham, Ala. | 1 | 1 | - | 1 |
| Chattanooga, Tenn. | 3 | - | 6 | 2 |
| Knoxville, Tenn. | 1 | 2 | 1 | 3 |
| Louisville, Ky. | 6 | 8 | 21 | 6 |
| Memphis, Tenn. | 4 | 8 | 8 | 4 |
| Mobile, Ala. | - | - | - | - |
| Montgomery, Ala. | 3 | 4 | 2 | 4 |
| Nashville, Tenn. | 5 | 3 | 3 | 2 |
| WEST SOUTH CENTRAL: | | | | |
| Austin, Tex. | 3 | - | 8 | - |
| Baton Rouge, La. | 1 | 2 | 1 | 1 |
| Corpus Christi, Tex. | 1 | - | 1 | 1 |
| Dallas, Tex. | 3 | 4 | 7 | 2 |
| El Paso, Tex. | 2 | - | 1 | 4 |
| Fort Worth, Tex. | - | 2 | - | 2 |
| Houston, Tex. | 2 | 3 | 2 | 3 |
| Little Rock, Ark. | 5 | 4 | 2 | 2 |
| New Orleans, La. | 6 | 5 | 7 | 13 |
| Oklahoma City, Okla. | 3 | - | 2 | 2 |
| San Antonio, Tex. | 6 | 3 | 5 | - |
| Shreveport, La. | 8 | 3 | 4 | 7 |
| Tulsa, Okla. | 3 | 8 | 1 | 3 |
| MOUNTAIN: | | | | |
| Albuquerque, N. Mex. | 2 | 2 | - | 1 |
| Colorado Springs, Colo. | 1 | 1 | 1 | - |
| Denver, Colo. | 5 | 7 | 2 | 6 |
| Ogden, Utah. | - | - | - | 1 |
| Phoenix, Ariz. | 5 | 6 | 5 | 4 |
| Pueblo, Colo. | - | - | - | - |
| Salt Lake City, Utah. | - | - | - | - |
| Tucson, Ariz. | 2 | - | - | - |
| PACIFIC: | | | | |
| Berkeley, Calif. | - | - | - | - |
| Fresno, Calif. | 2 | 3 | 1 | - |
| Glendale, Calif. | - | - | 1 | - |
| Honolulu, Hawaii | 1 | 2 | - | - |
| Long Beach, Calif. | 1 | 2 | - | - |
| Los Angeles, Calif. | 18 | 18 | 18 | 23 |
| Oakland, Calif. | 3 | 1 | - | 2 |
| Pasadena, Calif. | 2 | - | - | - |
| Portland, Oreg. | - | 2 | 3 | 5 |
| Sacramento, Calif. | 1 | - | 2 | - |
| San Diego, Calif. | 1 | 2 | 3 | 1 |
| San Francisco, Calif. | 1 | 5 | 4 | 2 |
| San Jose, Calif. | 2 | 5 | 4 | - |
| Seattle, Wash. | 5 | 7 | - | 5 |
| Spokane, Wash. | 1 | - | 1 | 1 |
| Tacoma, Wash. | 1 | 1 | 2 | 2 |
| San Juan, P.R. | (---) | (---) | (---) | (---) |

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

°Current Week Mortality for 108 Selected Cities

| | |
|---|---|
| 4(A) Total Mortality, all ages | 11,632 |
| 4(B) Pneumonia-Influenza Deaths, all ages | 372 |
| 4(C) Total Deaths under 1 Year of Age | 680 |
| 4(D) Total Deaths, Persons 65 years and over | 6,563 |

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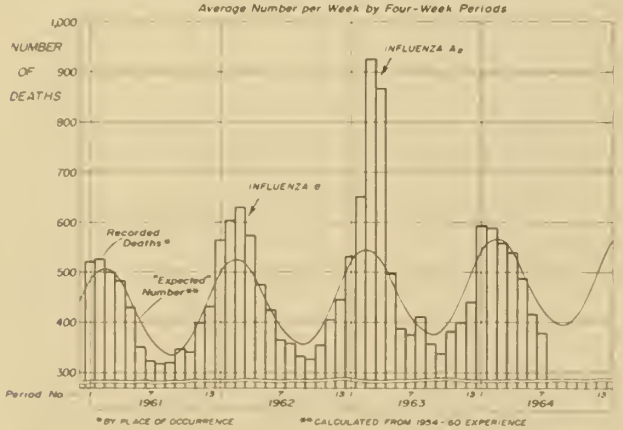
## SUMMARY OF PNEUMONIA AND INFLUENZA DEATHS

The weekly average number of pneumonia-influenza deaths for the four-week period ending June 27 was 379 as compared with an expected weekly average of 428.

| | Week Ending | | | | 4 Week | Weekly |
|---|---|---|---|---|---|---|
| | 6/6 | 6/13 | 6/20 | 6/27 | Total | Average |
| Observed | 417 | 352 | 377 | 372 | 1,518 | 379 |
| Expected | 439 | 432 | 425 | 418 | 1,714 | 428 |
| Excess | -22 | -80 | -48 | -46 | -196 | -49 |

PNEUMONIA-INFLUENZA DEATHS in 108 U.S. CITIES
Average Number per Week by Four-Week Periods




*(See table, page 231)*

## ERRATUM

In the epidemiological report on a family outbreak of chickenpox in Minnesota, appearing in the Morbidity and Mortality Weekly Report, Vol. 13, page 219, the next to last paragraph should read "Patient D" not "Patient B." Patient D died; patient B recovered.

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LAWRENCE K. ALTMAN, M.D., EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTES: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS.

SYMBOLS: -- DATA NOT AVAILABLE
QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, ATLANTA, GEORGIA 30333

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